Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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#### UTILITY Attorney Docket No. 282.032 **PATENT APPLICATION** DAVID J. BEEBE ET AL First Named Inventor

APPLICATION ELEMENTS  See MPEP chapter 500 concerning utility patient application contents.  1. ( X ) Fee Transmittal Form (e.g., PTO/SB/17) (Submit an oniginal, and aduptate for fee processing)  2. ( X ) Applicant claims small entity status See 37 CFR 1.73 (Journal arrangement set forth below, MPEP 1503.01) (Postprint siting appeals) (Postpri		TRANSMITTAL	Title	)	BIOCHEMICAL	SIGNAL TRANSFI	R USING	LIPOSOMES IN A			
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- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Claims - Abstract of the Disclosure - A. (X X) Drawing(s) (35 U.S.C. 113) [Total Sheets _ 5_] 5. () Oath or Declaration - A. (X Drawing(s) (35 U.S.C. 113) [Total Sheets _ 5_] - S. () Ozhy from a prior application (37 CFR 1.63 (d)) - (for continuation/viscions with Box 16 completed) - (i. () DELETION DE INVENTOR(S) - Signed datement attached deleting invention(s) hamed in the prior application, see 37 CFR 1.63 (d)(2) and 1.33 (b) (C) Candinustion () Divisional () Continuation () Continuation () Divisional () Continuation () Divisional () Continuation () Divisional () Continuation () Divisional () Continuation () Continuation () Divisional () Continuation () Divisional () Continuation () Divisional () Continuation	(preferred arrangement set forth below, MPEP 1503.01)				i. ( ) CD-ROM or CD-R (2 copies); or						
- Reference to sequence listing, a table, or computer program listing appendix  - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Detailed Description of the Drawings (if filed) - Detailed Description - Claims - Abstract of the Disclosure  4. ( X ) Drawing(s) (35 U.S.C. 113) [Total Sheets 5 ] - 3. ( ) Newly executed (original or copy) - b. ( ) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 16 completed) - i. ( ) DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63 (d)(2) and 1.33 (b) - 6. ( ) Application Data Sheet. See 37 CFR 1.76 - 7. ( ) CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application information: Examiner - For CONTINUATION or IDIVISIONAL APPS only: The entire disclosure of the prior application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadverently emitted from the submitted application parts.  17. CORRESPONDENCE ADDRESS  Name Peter C. Stomma  Registration No. (Attorney/Agent) 36,020  Name (Prini/Type) Peter C. Stomma  Registration No. (Attorney/Agent) 36,020		- Cross Reference to Related Applications			ii. ( ) paper						
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- Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claims - Abstract of the Disclosure  4. ( X ) Drawing(s) (35 U.S.C. 113) [Total Sheets 5 ] - ( ) Oath or Declaration - ( ) Rowly executed (original or copy) - ( ) Deptice of the Disclosure - ( ) Copy from a prior application (37 CFR 1.63 (d)) - ( ) Copy from a prior					ACCOMPANYING APPLICATION PARTS						
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For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  17. CORRESPONDENCE ADDRESS    Or Image: Correspondence address below	( ) Continuation ( ) Divisional ( ) Continuation-in-part (CIP) of prior application No:/										
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17. CORRESPONDENCE ADDRESS         □ Customer Number or Bar Code Label       23598       or ☑ Correspondence address below         Name       Peter C. Stomma         Address       BOYLE, FREDRICKSON, NEWHOLM, STEIN & GRATZ S.C.         250 E. Wisconsin Avenue , Suite 1030         City       Milwaukee       State       WI       Zip Code       53202         Country       USA       Telephone       (414) 225-9755       Fax       (414) 225-9753         Name (Print/Type) Peter C. Stomma       Registration No. (Attorney/Agent) 36,020	5b, is consi	dered a part of the disclosure of the accompanying	continuati	on or di	visional application	on and is hereby i	ncorporate	ed by reference. The			
Customer Number or Bar Code Label  23598  Name Peter C. Stomma  Address BOYLE, FREDRICKSON, NEWHOLM, STEIN & GRATZ S.C.  250 E. Wisconsin Avenue , Suite 1030  City Milwaukee State WI Zip Code 53202  Country USA Telephone (414) 225-9755 Fax (414) 225-9753  Name (Print/Type) Peter C. Stomma Registration No. (Attorney/Agent) 36,020	incorporation					nitted application	parts.				
23598           Name         Peter C. Stomma           Address         BOYLE, FREDRICKSON, NEWHOLM, STEIN & GRATZ S.C.           250 E. Wisconsin Avenue , Suite 1030           City         Milwaukee         State         WI         Zip Code         53202           Country         USA         Telephone         (414) 225-9755         Fax         (414) 225-9753           Name (Print/Type)         Peter C. Stomma         Registration No. (Attorney/Agent)         36,020											
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Signature Date Movember 4 2003	Name (	(Print/Type) Peter C. Stomma		Re	egistration No.	(Attorney/Age	nt) 36,0	020			
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FEE TRANSMITTAL					Complete if Known							
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SUBMITTED BY Complete (if applicable)												
Name (Print/Type) Peter C. Stomma—					stration No. rney/Agent) 36,020				Telephone	<u> </u>	25-9755	
Signature									Date	Novemb	er 4, 2003	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.-DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop- Box Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SUITE 1030
250 EAST WISCONSIN AVENUE
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INTELLECTUAL PROPERTY LAW

PETER C. STOMMA DIRECT DIAL: 414-225-1673 PCS@BOYLEFRED.COM

November 4, 2003

Mail Stop - Box Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re: Utility Patent Application

Inventor(s): David J. Beebe et al.

Title: Biochemical Signal Transfer Using Liposomes In A

Channel Of A Microfluidic Device USPTO Customer Account No.: 23598

Attorney Docket No.: 282.032

Dear Sir:

Enclosed is our check in the amount of \$448.00 in payment of the government filing fee for the enclosed United States patent application, which application includes 10 pages of specification, 27 claims on 6 sheets, 4 Drawings on 5 sheets, and an Abstract of the Disclosure. A Utility Patent Application Transmittal and Fee Transmittal Form PTO/SB/17 (11/00) together with the filing fee are also enclosed. The Declaration and Power of Attorney is not included with the application and will be submitted at a later date.

Applicant is a small entity within the meaning of 37 CFR §§ 1.9 and 1.27 and hereby claims small entity status. The application has Federal Funding No. DOD ARPA F30602-00-2-0570.

Mail Stop - Box Patent Application Commissioner for Patents November 4, 2003 Page 2

The Director is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1170.

Respectfully submitted

Peter C. Stomma

Registration No. 36,020

Customer Account - 23598

## Certification Under 37 CFR 1.10

Express Mail Label No: EV313040236US

Date of Deposit: November 4, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service in "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the MAIL STOP - BOX PATENT APPLICATION, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Christine Kierzek

PATENT AND TRADEMARK OFFICE
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### SUPPLEMENT TO TRANSMITTAL LETTER

Mail Stop - Box Patent Application Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This application is being filed pursuant to 37 CFR 1.53(b) and (d). The application includes the specification, at least one claim, the drawings, and the filing fee. The inventors are:

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The oath or declaration of the applicants is not included. The declaration will be forwarded promptly upon notification from the U.S. Patent and Trademark Office.

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Christine Kierzek